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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/598,917	09/12/2007	Carl-Eike Hofmeister	071308.0762	2033
31625 BAKER BOTT	7590 04/04/200 S L.L.P.	EXAMINER		
PATENT DEPA		GIMIE, MAHMOUD		
98 SAN JACINTO BLVD., SUITE 1500 AUSTIN, TX 78701-4039			ART UNIT	PAPER NUMBER
			3747	
			MAIL DATE	DELIVERY MODE
			04/04/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applic	Application No. Applicant(s)					
		10/598	3,917	HOFMEISTER, CARL-EIKE				
Office Action Summary			ner	Art Unit	T			
		Mahmo	oud Gimie	3747				
Period fo	The MAILING DATE of this commu or Reply	nication appears on	the cover sheet	with the correspondence a	ddress			
A SH WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIST STATE IN THE MAIST STATE OF THE MONTHS FROM THE MAIST STATE OF THE MONTHS FROM THE MAIST STATE OF THE MONTHS FROM THE MONTHS FRO	MAILING DATE OF s of 37 CFR 1.136(a). In no munication. tatutory period will apply ar y will, by statute, cause the	THIS COMMUN o event, however, may and will expire SIX (6) Mo application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).				
Status								
	Responsive to communication(s) fil	ed on 12 Sentembe	ar 2007					
2a)□	Responsive to communication(s) filed on <u>12 September 2007</u> . This action is FINAL . 2b)⊠ This action is non-final.							
3)□		/ —		atters prosecution as to th	ne merits is			
٠,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	Claim(s) <u>1-15</u> is/are pending in the	application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	☐ Claim(s) is/are allowed.							
	 ☐ Claim(s) is/arc allowed. ☐ Claim(s) 1,4-6,9-11,14 and 15 is/arc rejected. 							
· ·	Claim(s) <u>2,3,7,8,12 and 13</u> is/are of	=						
	Claim(s) are subject to restri	-	n requirement.					
Applicati	on Papers							
	The specification is objected to by the	ne Examiner						
•	The drawing(s) filed on <u>14 Septemb</u>		ସ accepted or b՝	∩ objected to by the Exa	aminer.			
٠٠/	Applicant may not request that any obje			·				
	Replacement drawing sheet(s) includin		-		CFR 1 121(d)			
11)	The oath or declaration is objected t	_	•		• •			
Priority ι	ınder 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:								
, -	1.⊠ Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* 5	* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)							
	e of References Cited (PTO-892)		4) Interviev	v Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date								
3) ☑ Information Disclosure Statement(s) (PTO/SB/08) 5) ☑ Notice of Informal Patent Application Paper No(s)/Mail Date 2/16/2007. 6) ☑ Other:								
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DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: The specification contains reference to claim 1, paragraph [0002], which does not contribute to the written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, or set forth the best mode contemplated by the inventor of carrying out his invention. The references to the claims should be deleted from the text of the specification as required.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 4, 5, 6, 9, 10, 11, 14 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Goto et al. (US 6,032,639).

Regarding claim 1, Goto et al. disclose a method for monitoring the operability of an injection system of an internal combustion engine, comprising a pressure accumulator (15), an injection valve (2) connected to the pressure accumulator, a controllable fuel

supply system which delivers fuel to the pressure accumulator, the method comprising the steps of: measuring the pressure in the pressure accumulator by a pressure sensor (20) coupled with the pressure accumulator, feeding the measured pressure value to a control unit (17); controlling the quantity of fuel delivered by the injection valve (2) and supplied from the fuel supply system as a function of operating parameters of the internal combustion engine (col. 3 and II. 23-26), varying the quantity of fuel delivered by the injection valve (col. 3 and II. 53-56); measuring a resulting pressure, comparing the resulting pressure with a setpoint pressure (desired fuel pressure) for the given operating conditions, and detecting a malfunction source depending on the deviation of the measured resulting pressure from the comparison value and if the measured resulting pressure is below the setpoint value (col. 7 and II. 1-40).

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Regarding claim 4, the pressure is measured over a measuring period of 1 second (inherent) and the time response of the pressure during the measuring period is compared with a setpoint response.

Regarding claim 5, depending on the fault detected, an appropriate emergency program (fail-safe control system) for control by the control unit is used, wherein appropriate emergency programs being available to the control unit for the various malfunctions (col. 7 and II. 49-55).

Regarding claim 6, Goto et al. disclose a method for monitoring the operability of an injection system of an internal combustion engine, comprising the steps of: measuring the pressure in a pressure accumulator by a pressure sensor (20), controlling the quantity of fuel delivered by an injection valve and supplied from a fuel supply system

as a function of operating parameters of the internal combustion engine (col. 3 and II. 23-26), varying the quantity of fuel delivered by the injection valve, measuring a resulting pressure, comparing the resulting pressure with a setpoint pressure for the given operating conditions, and - detecting a malfunction source depending on the resulting pressure and on the deviation of the resulting pressure from the comparison value.

Regarding claim 9, wherein, the pressure is measured over a measuring period of 1 second (inherent) and the time response of the pressure during the measuring period is compared with a setpoint response.

Regarding claim 10, wherein, depending on the fault detected, an appropriate emergency program (fail-safe program) for control by the control unit is used, wherein appropriate emergency programs being available to the control unit for the various malfunctions.

Regarding claim 11, Goto et al. disclose a system for monitoring the operability of an injection system of an internal combustion engine, comprising: - a pressure accumulator, - an injection valve connected to the pressure accumulator, - a controllable fuel supply system which delivers fuel to the pressure accumulator, - a pressure sensor (20) coupled with the pressure accumulator (15), - a control unit (17) controlling the quantity of fuel delivered by an injection valve and supplied from a fuel supply system as a function of operating parameters of the internal combustion engine, and varying the quantity of fuel delivered by the injection valve, - a comparator comparing the resulting pressure with a setpoint pressure for the given operating conditions, and detecting a

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malfunction source depending on the resulting pressure and on the deviation of the resulting pressure from the comparison value.

Regarding claim 14, wherein, the pressure is measured over a measuring period of 1 second and the time response of the pressure during the measuring period is compared with a setpoint response.

Regarding claim 15, wherein, depending on the fault detected, an appropriate emergency program (fail-safe program) for control by the control unit is used, wherein appropriate emergency programs being available to the control unit for the various malfunctions.

Allowable Subject Matter

4. Claims 2, 3, 7, 8, 12 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited references disclose abnormality detection systems.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mahmoud Gimie whose telephone number is 571-272-4841. The examiner can normally be reached on Monday-Friday between 7 a.m. -3:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen K. Cronin can be reached on 571-272-4536. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MG/ /Mahmoud Gimie/ Primary Examiner, Art Unit 3747